10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Adrenodoxin Rabbit mAb

Catalog # AP75039

Product Information

Application	WB, IHC-P
Primary Accession	P10109
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	19393

Additional Information

Gene ID	2230
Other Names	FDX1
Dilution	WB~~1:500-1:2000 IHC-P~~N/A
Format	1xPBS(pH 7.4), 150mM NaCl, 50% Glycerol, 0.02% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

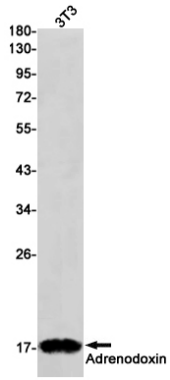
Protein Information

Name	FDX1
Synonyms	ADX
Function	Essential for the synthesis of various steroid hormones (PubMed: 20547883, PubMed:21636783). Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis (PubMed:20547883, PubMed:21636783). Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage (PubMed:20547883, PubMed:21636783). Does not form a ternary complex with adrenodoxin reductase and CYP11A1 but shuttles between the two enzymes to transfer electrons (By similarity).
Cellular Location	Mitochondrion matrix
Tissue Location	Highest levels in the adrenal gland (at protein level). Also detected in kidney and testis (at protein level)

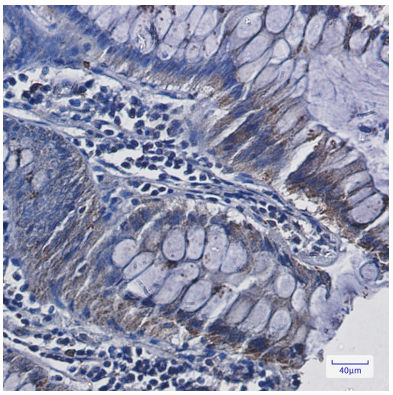
Background

Essential for the synthesis of various steroid hormones (PubMed:20547883, PubMed:21636783). Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis (PubMed:20547883, PubMed:21636783). Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage (PubMed:20547883, PubMed:21636783). Does not form a ternary complex with adrenodoxin reductase and CYP11A1 but shuttles between the two enzymes to transfer electrons .

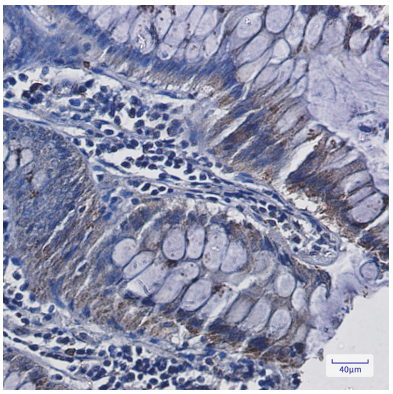
Images



Western blot analysis of Adrenodoxin in 3T3 lysates using Adrenodoxin antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Adrenodoxin antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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